Teoremas

1. $(f \pm g)'(x) = f'(x) \pm g'(x)$

2. $(kf(x))' = kf'(x)$

3. $(fg)'(x) = f(x)g'(x) + g(x)f'(x)$

4. $\left(\frac{f}{g}\right)'(x) = \frac{g(x)f'(x) - f(x)g'(x)}{(g(x))^2}$

Funciones	Derivadas
1. $f(x) = c$ donde c es una **constante.**	$f'(x) = 0$
2. $f(x) = \sqrt{x}$	$f'(x) = \frac{1}{2\sqrt{x}}$
3. $f(x) = x^n$	$f'(x) = nx^{n-1}$
4. $f(x) = a^x$	$f'(x) = a^x \ln a$
5. $f(x) = e^x$	$f'(x) = e^x$
6. $f(x) = \log_a x$	$f'(x) = \frac{\log_a e}{x}$
7. $f(x) = ln\ x$	$f'(x) = \frac{1}{x}$
8. $f(x) = sen\ x$	$f'(x) = cos\ x$
9. $f(x) = cos\ x$	$f'(x) = -sen\ x$
10. $f(x) = tg\ x$	$f'(x) = sec^2\ x$
11. $f(x) = ctg\ x$	$f'(x) = -cosec^2\ x$
12. $f(x) = sec\ x$	$f'(x) = sec\ x\ tg\ x$
13. $f(x) = cosec\ x$	$f'(x) = -cosec\ x\ ctg\ x$
14. $f(x) = senh\ x$	$f'(x) = cosh\ x$
15. $f(x) = cosh\ x$	$f'(x) = senh\ x$
16. $f(x) = tgh\ x$	$f'(x) = sech^2\ x$
17. $f(x) = coth\ x$	$f'(x) = -cosech^2\ x$
18. $f(x) = sech\ x$	$f'(x) = -sech\ x\ tgh\ x$
19. $f(x) = cosech\ x$	$f'(x) = -cosech\ x\ ctgh\ x$

20. $f(x) = arcsen\ x$ $\qquad f'(x) = \dfrac{1}{\sqrt{1-x^2}}$

21. $f(x) = arccos\ x$ $\qquad f'(x) = \dfrac{-1}{\sqrt{1-x^2}}$

22. $f(x) = arctg\ x$ $\qquad f'(x) = \dfrac{1}{1+x^2}$

23. $f(x) = arcctg\ x$ $\qquad f'(x) = \dfrac{-1}{1+x^2}$

24. $f(x) = arcsec\ x$ $\qquad f'(x) = \dfrac{1}{x\sqrt{x^2-1}}$

25. $f(x) = arccosec\ x$ $\qquad f'(x) = \dfrac{-1}{x\sqrt{x^2-1}}$